

Contents of Volume 169

Vol. 169 Nos. 1–3

| | |
|--|-----|
| Introduction | 1 |
| Chiroptical rhythmicity, part 3: implications on the activity of the functional cell-surface receptor model M.M. Tedesco, B. Ghebremariam and S. Matile (Washington, DC, USA) | 5 |
| Double-layer potential distribution and surface charge density/surface potential relationship for a nearly spherical spheroid in an electrolyte solution H. Ohshima (Tokyo, Japan) | 13 |
| Sorption and ion-exchange properties of barium hydroxyapatite with divalent cations S. Sugiyama, H. Matsumoto, H. Hayashi (Tokushima, Japan) and J.B. Moffat (Waterloo, Canada) | 17 |
| Formation of the 'nanotube' structure of β -cyclodextrin on Au(III) surfaces induced by potential controlled adsorption A. Ohira, T. Ishizaki, M. Sakata, I. Taniguchi, C. Hirayama and M. Kunitake (Kumamoto, Japan) | 27 |
| Structure of monoalkyl-monocationic surfactants on the microscopic three-dimensional platinum surface in water T. Yonezawa, N. Toshima (Tokyo, Japan), C. Wakai, M. Nakahara (Kyoto, Japan), M. Nishinaka, T. Tominaga (Okayama, Japan) and H. Nomura (Nagoya, Japan) | 35 |
| Syntheses and monolayer properties of vitamin B ₁₂ derivatives with seven alkyl chains K. Ariga, K. Tanaka, K. Katagiri, J.-i. Kikuchi (Nara, Japan), E. Ohshima and Y. Hisaeda (Fukuoka, Japan) | 47 |
| Oxidation of ethylene catalyzed by colloidal dispersions of poly(sodium acrylate)-protected silver nanoclusters Y. Shiraishi and N. Toshima (Yamaguchi, Japan) | 59 |
| Cryo-TEM of thread-like micelles: on-the-grid microstructural transformations induced during specimen preparation D. Danino, Y. Talmon (Haifa, Israel) and R. Zana (Strasbourg, France) | 67 |
| Micelle formation of sodium ursodeoxycholate and solubilization into the micelle Y. Moroi and M. Okabe (Fukuoka, Japan) | 75 |
| Stimuli response of polysoap hydrogels in aqueous solution and DC electric fields Y. Yang (Wuhan, People's Republic of China) and J.B.F.N. Engberts (Groningen, The Netherlands) | 85 |
| Hetero-coagulation of polymeric core-corona microspheres T. Serizawa, K. Taniguchi and M. Akashi (Kagoshima, Japan) | 95 |
| Poly(<i>N</i> -vinylisobutyramide)-stabilized platinum nanoparticles: synthesis and temperature-responsive behavior in aqueous solution C.-W. Chen, T. Takezako, K. Yamamoto, T. Serizawa and M. Akashi (Kagoshima, Japan) | 107 |
| Solid state phase behaviors of dodecyldimethylamine oxide: protonation and counterion effects H. Kawasaki, T. Fukuda, A. Yamamoto (Fukuoka, Japan), K. Fukada (Tokyo, Japan) and H. Maeda (Fukuoka, Japan) | 117 |
| Gas permeation properties of porous glass modified with LB films of alkylalkoxysilane derivatives I. Moriguchi, Y. Shimada, Y. Teraoka and S. Kagawa (Nagasaki, Japan) | 125 |
| Nucleotide-responsive gel tips for atomic force microscopy M. Sano, J. Okamura, Y. Kanekiyo and S. Shinkai (Fukuoka, Japan) | 131 |
| Fabrication of porphyrin–titanium oxide–fullerene assemblies on an ITO electrode and their photocurrent responses T. Akiyama, A. Miyazaki, M. Sutoh, I. Ichinose, T. Kunitake and S. Yamada (Fukuoka, Japan) | 137 |
| Aggregation behavior of synthetic peptide lipids with arginine in aqueous solution and construction of a vitamin B ₁₂ artificial enzyme Y. Hisaeda, E. Ohshima and M. Arimura (Fukuoka, Japan) | 143 |
| Effect of binding state between hydrophilic and hydrophobic portions on aggregation structure of monolayer A. Harada, M. Kuramori, K. Suehiro and Y. Oishi (Saga, Japan) | 155 |
| Catalytic reduction of organohalides at hemin and hemin–imidazole polymer films on pyrolytic graphite electrodes N. Nakashima, T. Tokunaga, H. Owaki, H. Murakami and T. Sagara (Nagasaki, Japan) | 163 |
| Nanotribology of behenic acid monolayer and its aggregation state Y. Oishi, T. Kasagi, M. Kuramori and K. Suehiro (Saga, Japan) | 171 |
| QCM analyses on adsorption of gaseous guests to cast films of porphyrin-resorcinol derivatives K. Ariga (Yokohama, Japan), K. Endo, Y. Aoyama (Fukuoka, Japan) and Y. Okahata (Yokohama, Japan) | 177 |
| Supramolecular ion channel containing <i>trans</i> -azobenzene for photocontrol of ionic fluxes Y. Kobuke (Ikoma, Japan) and A. Ohgoshi (Hamamatsu, Japan) | 187 |
| Construction of Langmuir–Blodgett films from light-harvesting complex I isolated from photosynthetic bacteria K. Iida, A. Kashiwada and M. Nango (Nagoya, Japan) | 199 |

| | |
|--|-----|
| Covalently attached multilayer assemblies containing photoreactive diazo-resins and conducting polyaniline J. Sun, L. Cheng, F. Liu, S. Dong, Z. Wang, X. Zhang and J. Shen (Changchun, People's Republic of China) | 209 |
| Sonochemical formation of colloidal platinum R.A. Caruso, M. Ashokkumar and F. Grieser (Parkville, Australia) | 219 |
| Mutual and tracer diffusion coefficients for zwitterionic and ionic mixed micellar systems: effects of counter ions and micellar aggregation numbers Y. Nogami, H. Watanabe, H. Ohtaka-Saiki and T. Tominaga (Okayama, Japan) | 227 |
| Ultrafast dynamics of fluorescence-activated CdS nanoparticles in aqueous solutions by femtosecond transient bleaching spectroscopy H. Inoue (Hamamatsu, Japan), D.J. Elliot (Clayton, Australia), M. Tada, T. Nagamura (Hamamatsu, Japan), F. Grieser (Parkville, Australia), H. Sakaguchi (Hamamatsu, Japan) and D.N. Furlong (Clayton, Australia). | 233 |
| Preparation of a clay-metal complex hybrid film by the Langmuir-Blodgett method and its application as an electrode modifier K. Okamoto, K. Tamura, M. Takahashi and A. Yamagishi (Sapporo, Japan) | 241 |
| Electric field-induced orientation of organic microcrystals with large dipole moment in dispersion liquid H. Oikawa, S. Fujita, H. Kasai, S. Okada (Sendai, Japan), S.K. Tripathy (Lowell, MA, USA) and H. Nakanishi (Sendai, Japan). | 251 |
| Chiral-recognition polymer prepared by surface molecular imprinting technique M. Yoshida, Y. Hatate (Kagoshima, Japan), K. Uezu, M. Goto and S. Furusaki (Fukuoka, Japan) | 259 |
| Lyotropic aggregate of tripeptide derivatives within organic solvents: study on dynamic property of molecular assembling N. Yamada, K. Matsubara, K. Narumi, Y.-i. Sato, E. Koyama (Chiba, Japan) and K. Ariga (Nara, Japan) | 271 |
| Assembly of β -glucosidase multilayers on spherical colloidal particles and their use as active catalysts F. Caruso, H. Fiedler and K. Haage (Potsdam, Germany) | 287 |
| Formation mechanism of <i>n</i> -octadecyltrichlorosilane monolayer prepared at the air/water interface K. Kojio, A. Takahara and T. Kajiyama (Fukuoka, Japan) | 295 |
| Formation of physical hydrogels with terpyridine-containing carboxylic acids K. Hanabusa, T. Hirata, D. Inoue, M. Kimura and H. Shirai (Ueda, Japan) | 307 |
| Removal of a solid organic soil from a hard surface by glucose-derived surfactants: effect of surfactant chain length, headgroup polymerisation and anomeric configuration A. Weerawardena, B.J. Boyd, C.J. Drummond and D.N. Furlong (Clayton South, Australia). | 317 |
| 1-Carboxyethyl-4-cyanopyridinium-mediated photoinduced electron-proton cotransport across phosphatidylcholine vesicle membranes L.D. Lucchesi, R.F. Khairutdinov and J.K. Hurst (Pullman, USA) | 329 |
| Complement hybridization from solution to surface-attached probe-oligonucleotides observed by surface-plasmon-field-enhanced fluorescence spectroscopy T. Liebermann, W. Knoll (Mainz, Germany), P. Sluka and R. Herrmann (Penzberg, Germany) | 337 |
| Charge regulation in polyelectrolyte brushes studied by FTIR spectroscopy T. Abe, S. Hayashi (Sendai, Japan), N. Higashi, M. Niwa (Kyoto, Japan) and K. Kurihara (Sendai, Japan) | 351 |
| Erratum. | 359 |
| <i>Calendar</i> | 359 |
| <i>Author index</i> | 361 |
| <i>Subject index</i> | 363 |
| <i>Volume contents</i> | 365 |